

FIG. 1

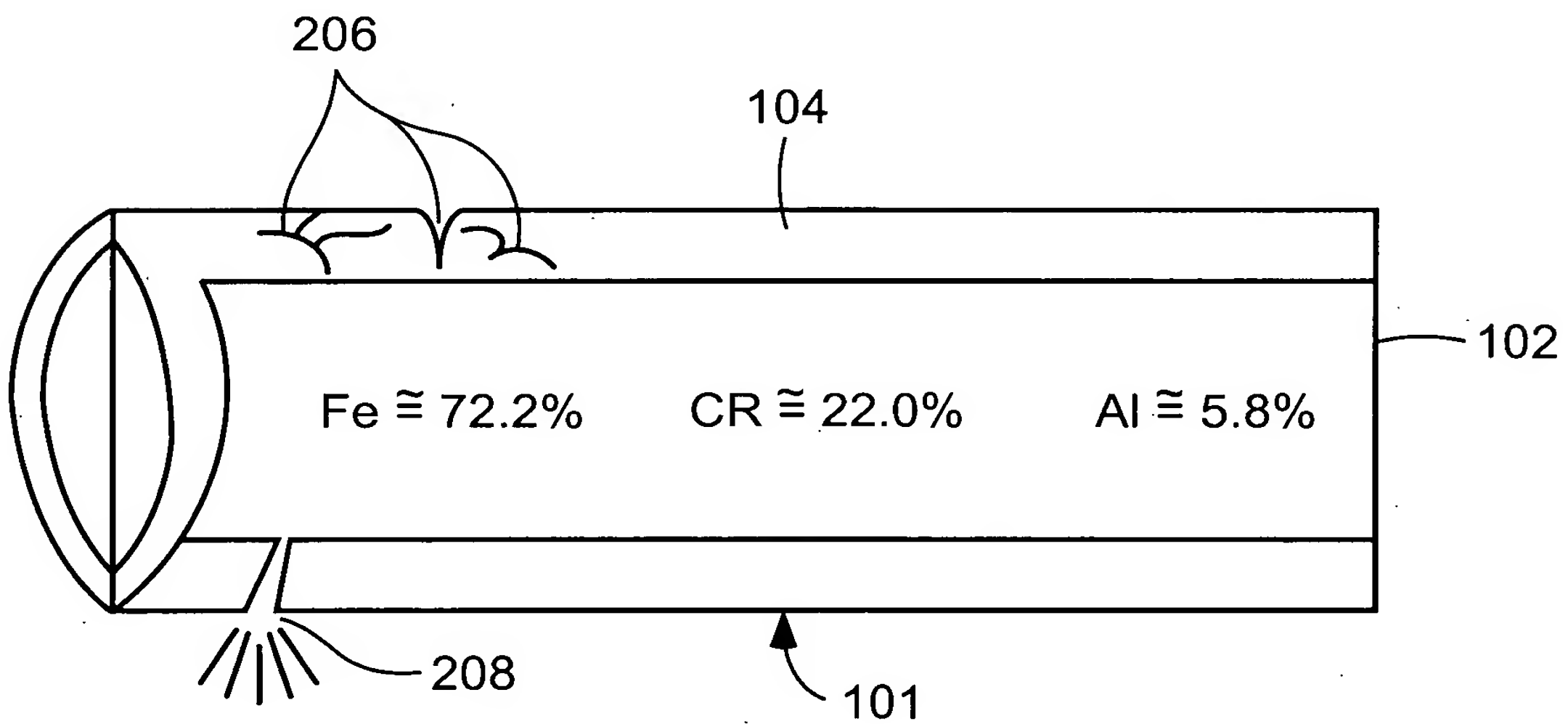


FIG. 2

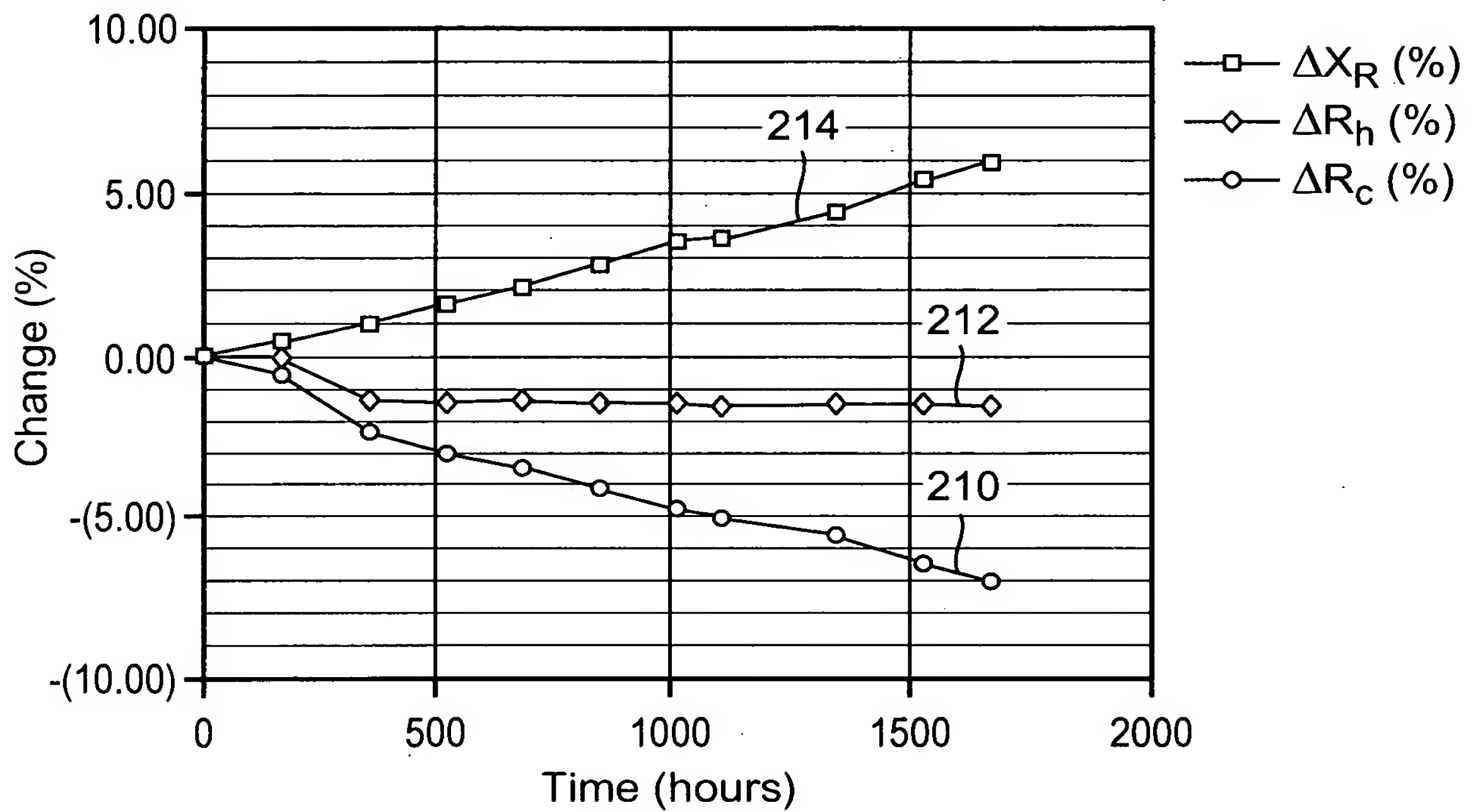


FIG. 2A

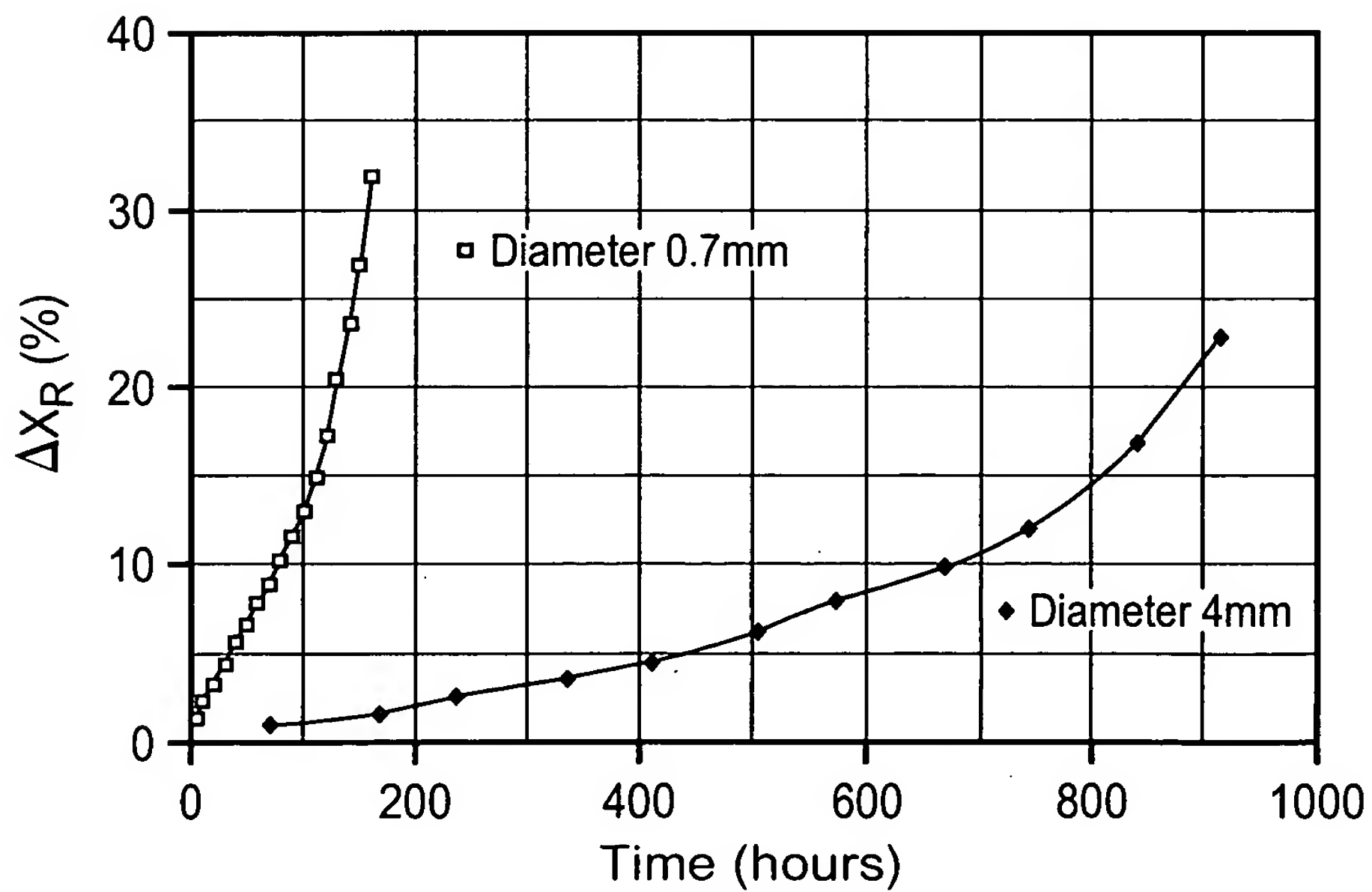


FIG. 2B

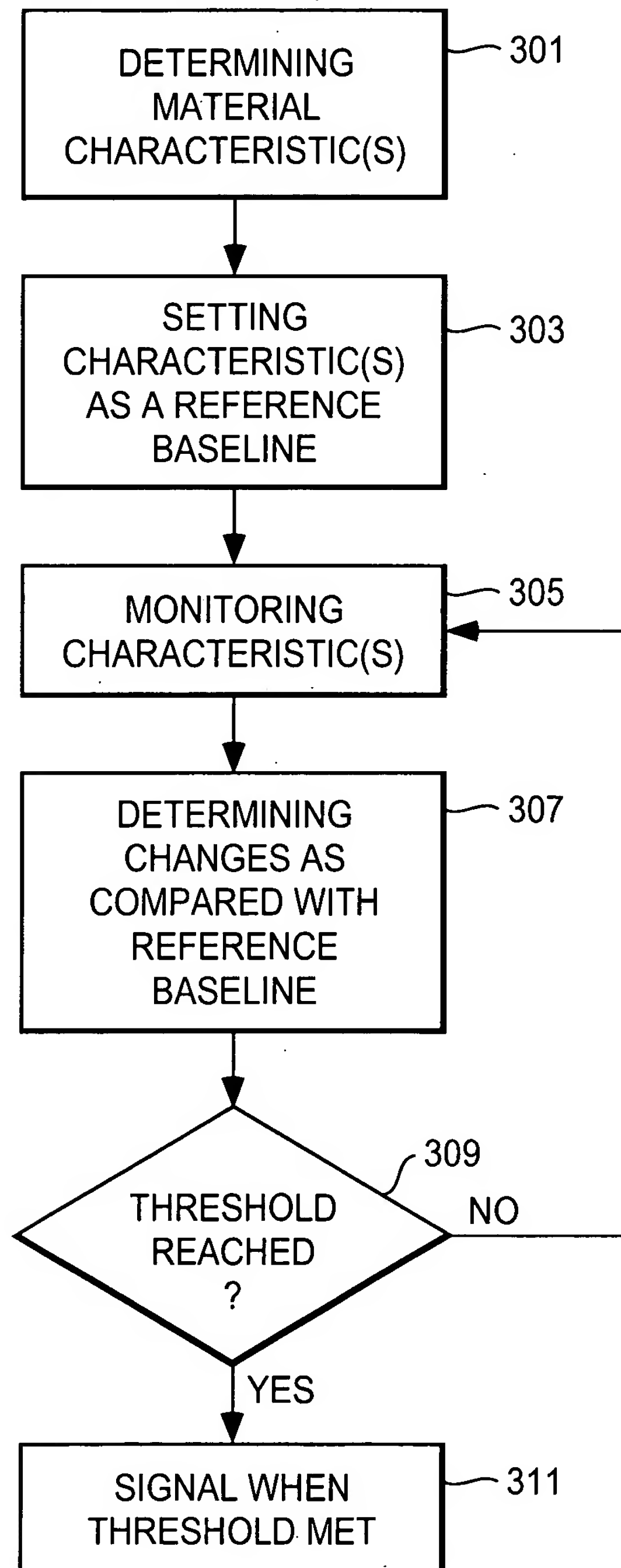


FIG. 3A

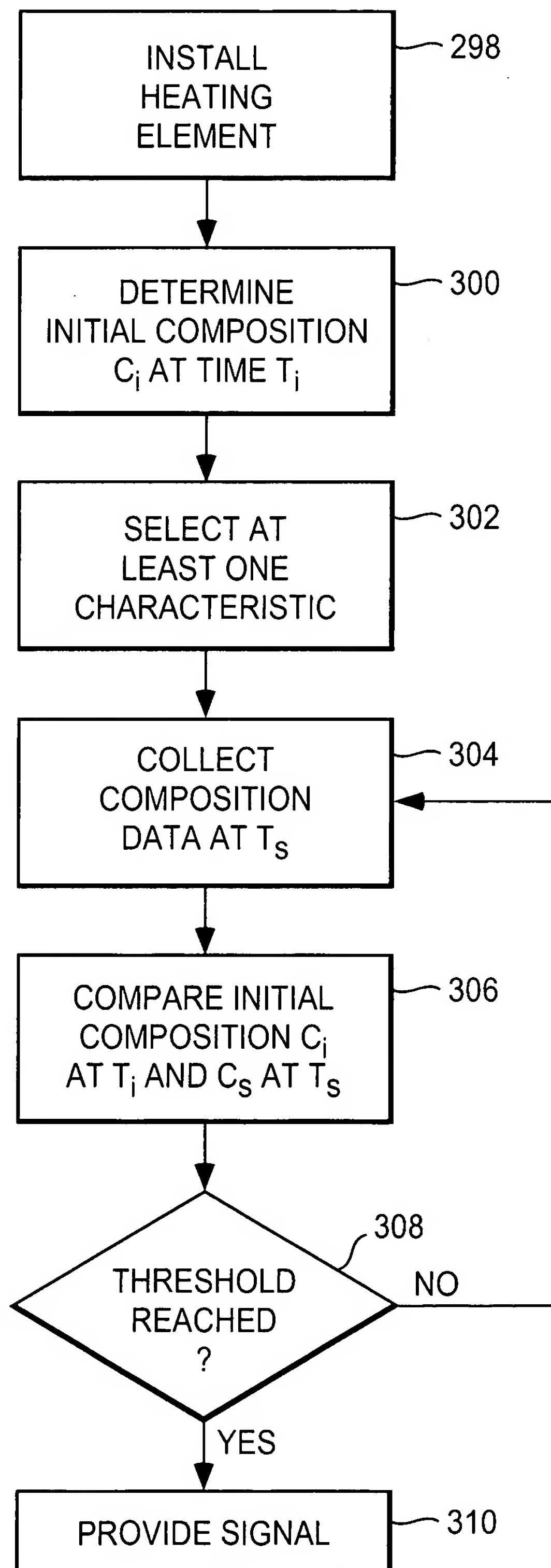


FIG. 3B

APPLN. FILING DATE: JULY 16, 2003

TITLE: HEATING ELEMENT CONDITION MONITOR

INVENTORS: KEVIN B. PECK ET AL.

APPLICATION SERIAL NO: 10/619,561

SHEET 5 of 19

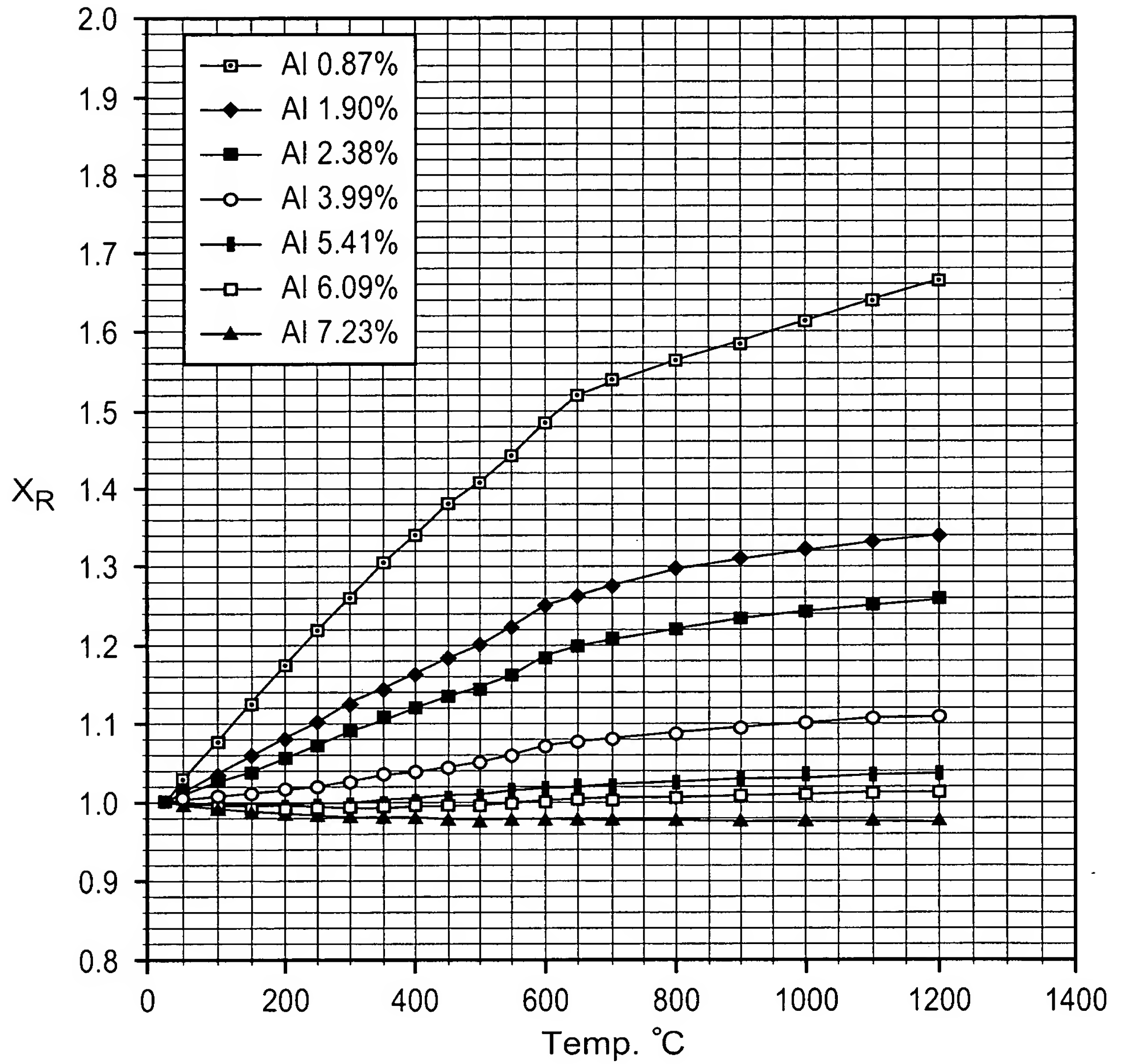


FIG. 3C

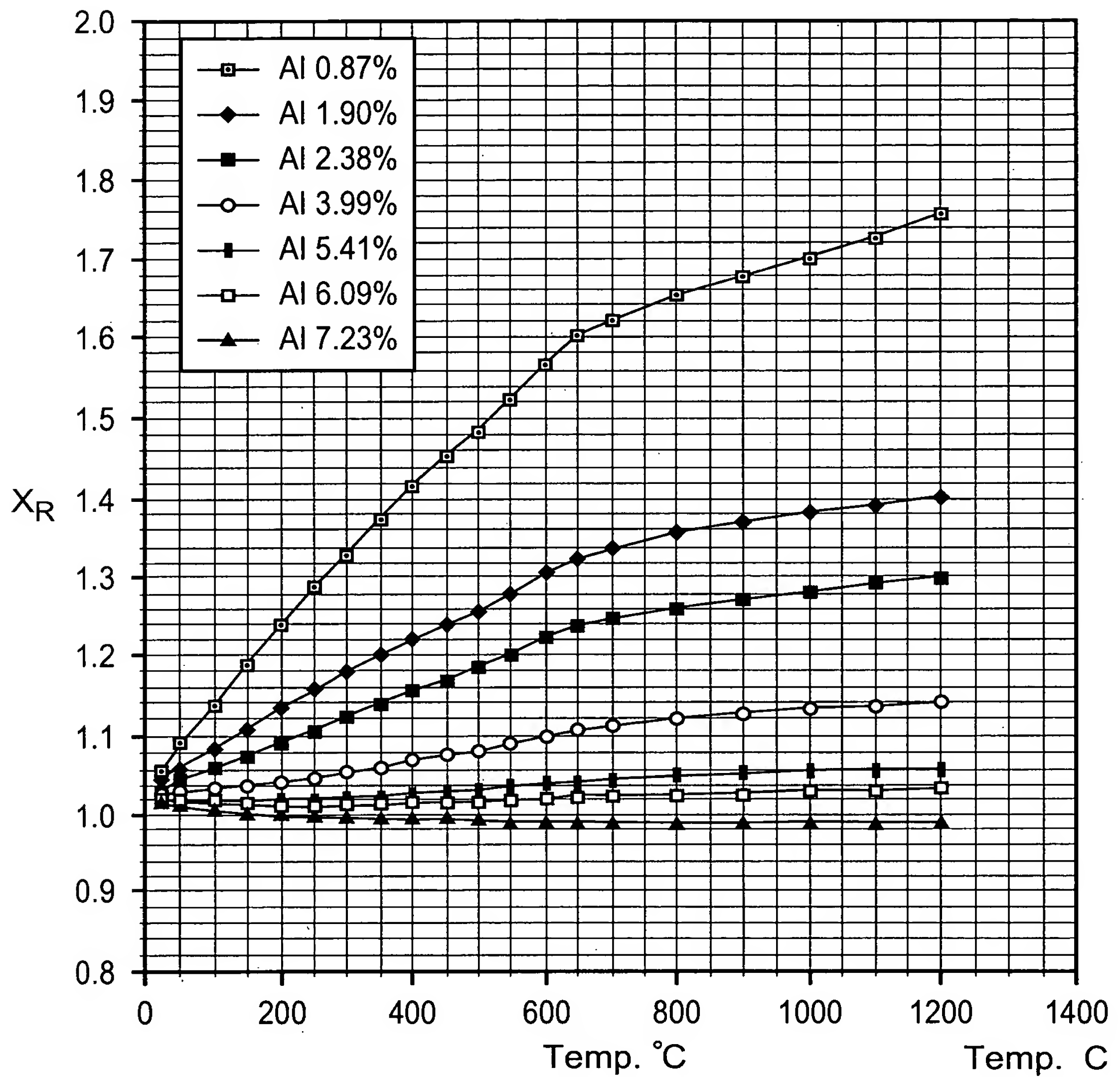


FIG. 3D

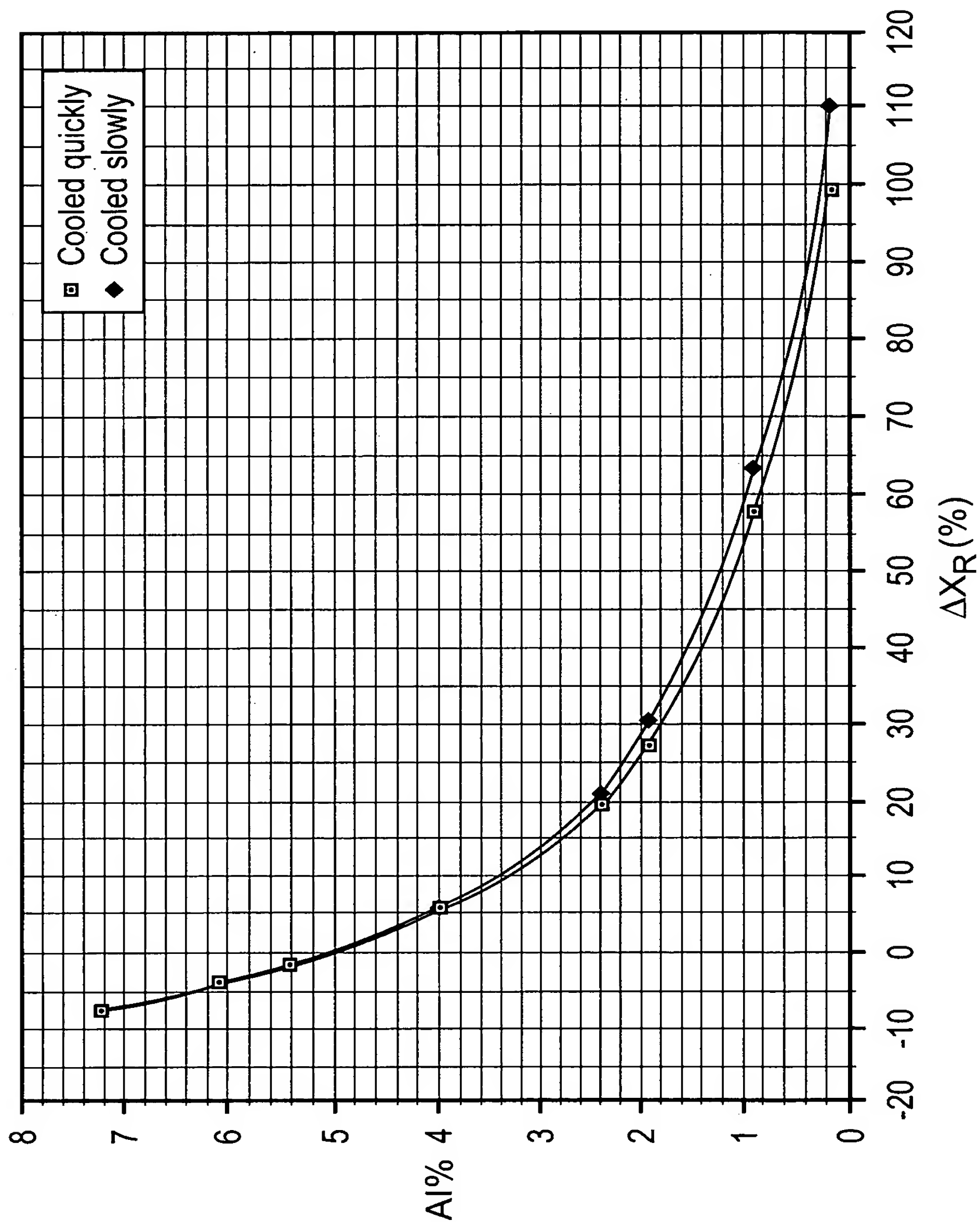


FIG. 3E

Time	Hot Resistance	Cold Resistance	Resistance Ratio	Remaining Alloy
$T_1$	$R_{h1}$	$R_{c1}$	$X_{R1}$	$A_{R1}$
$T_2$	$R_{h2}$	$R_{c2}$	$X_{R2}$	$A_{R2}$
$T_3$	$R_{h3}$	$R_{c3}$	$X_{R3}$	$A_{R3}$
• • •	• • •	• • •	• • •	• • •
$T_n$	$R_{hn}$	$R_{cn}$	$X_{Rn}$	$A_{Rn}$
400	402	404	406	408

**FIG. 4**



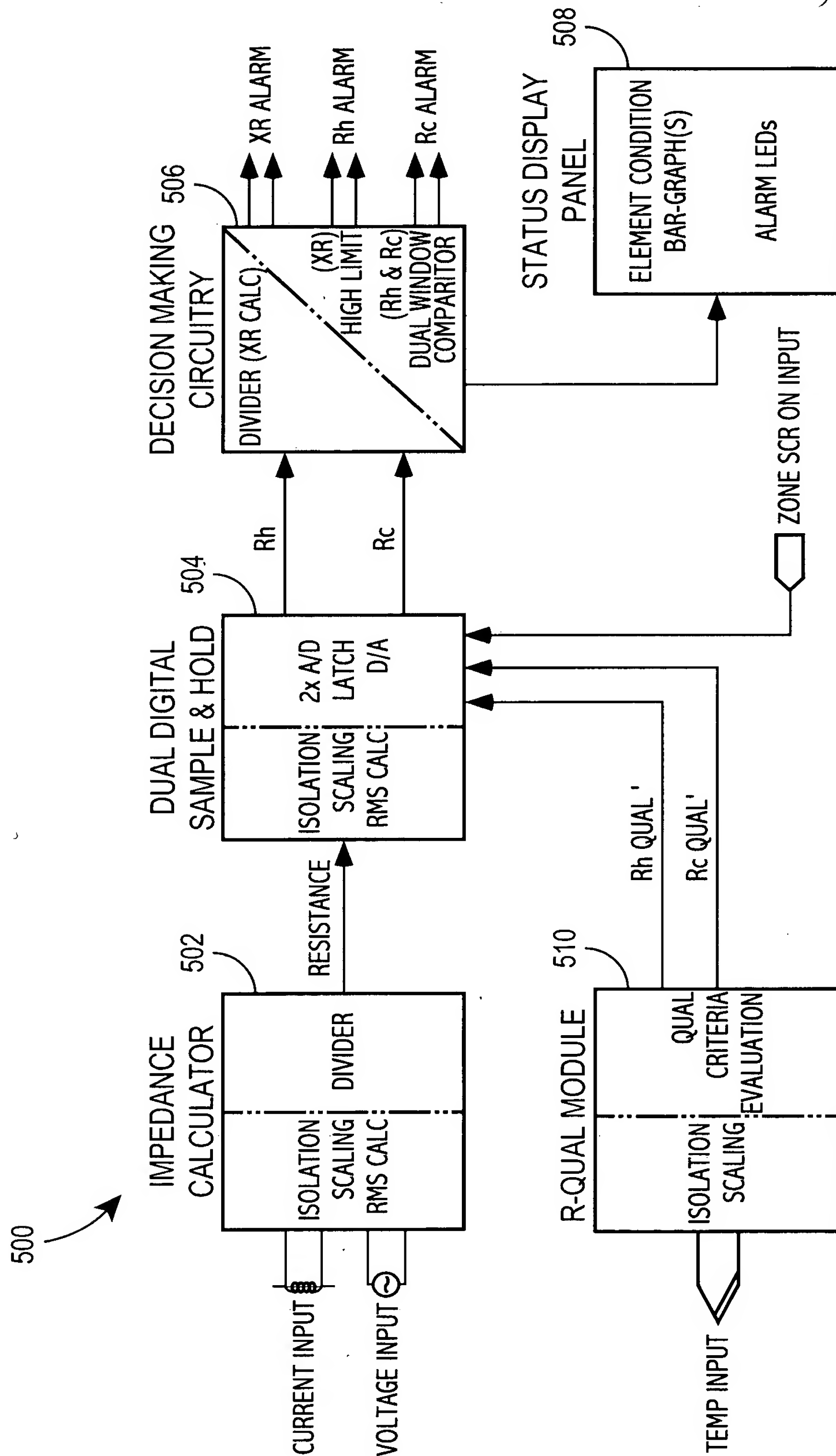


FIG. 5

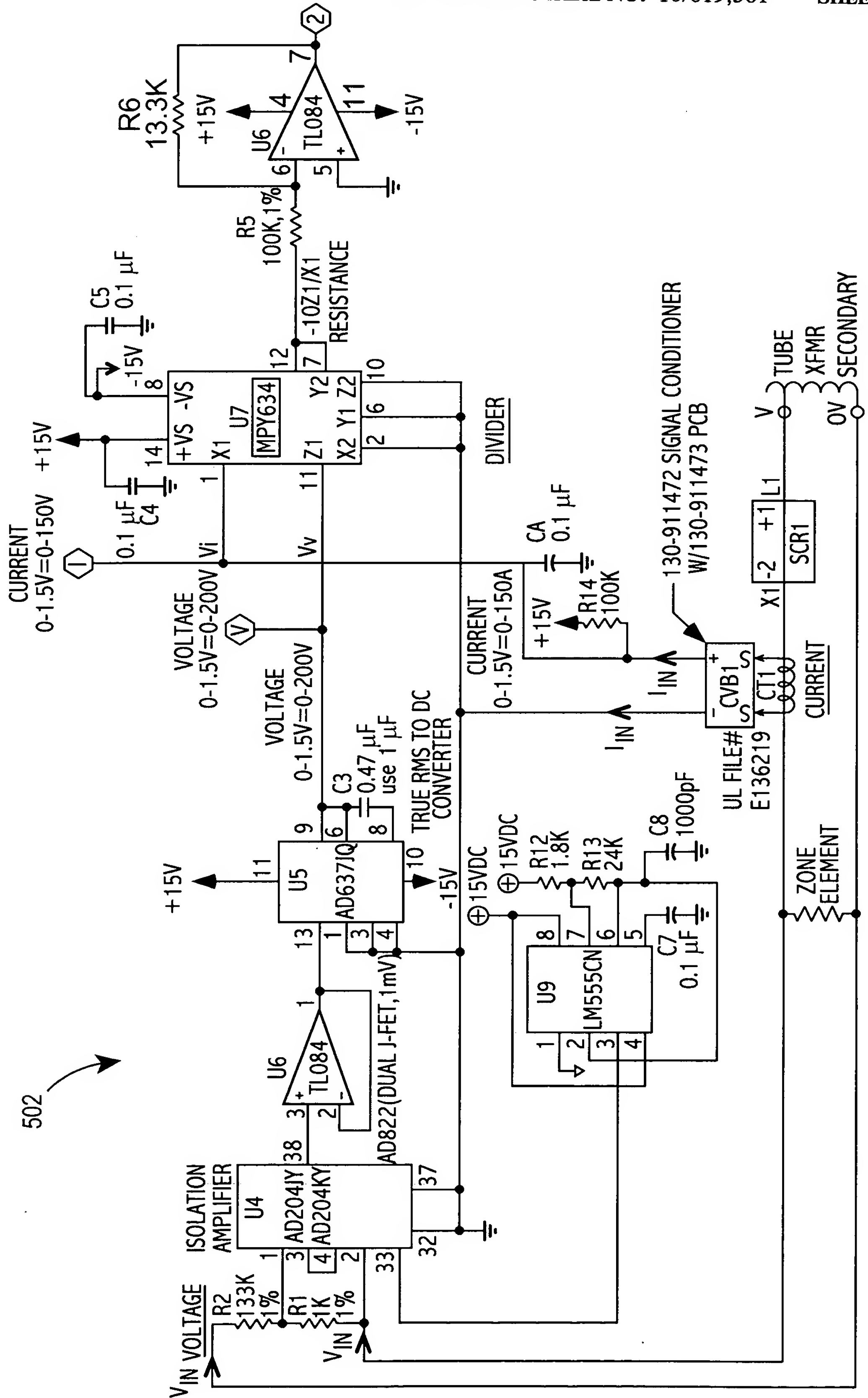
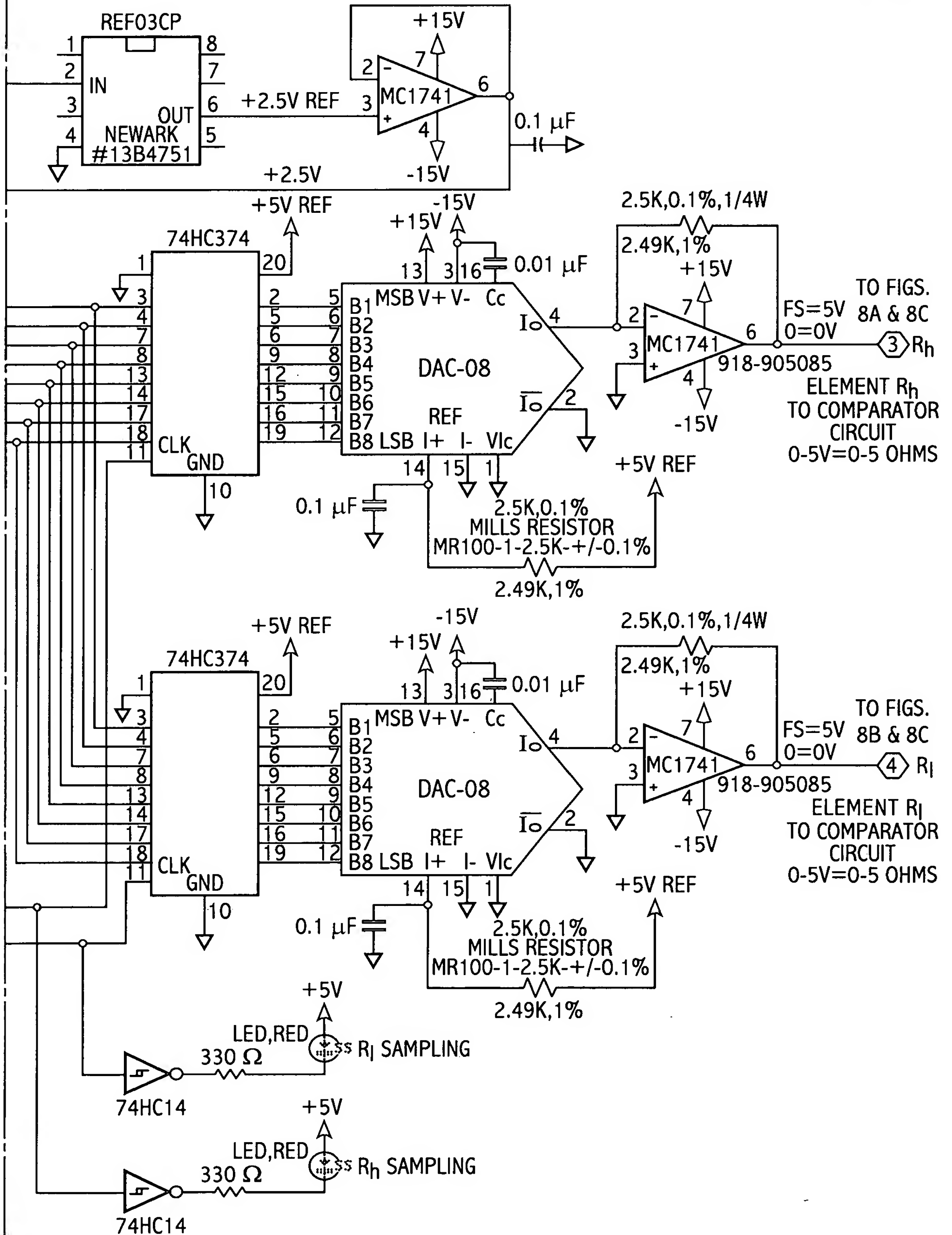
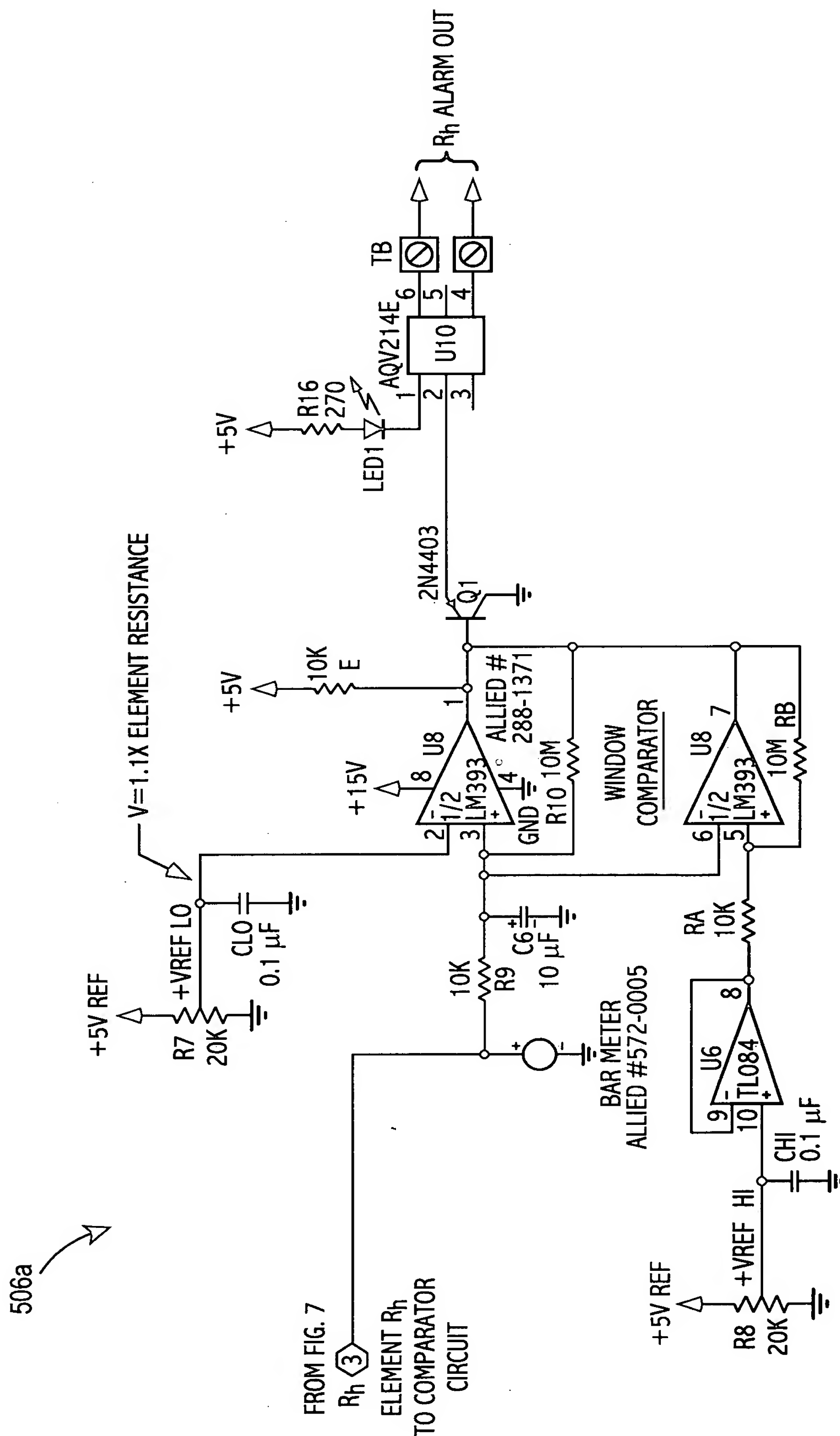


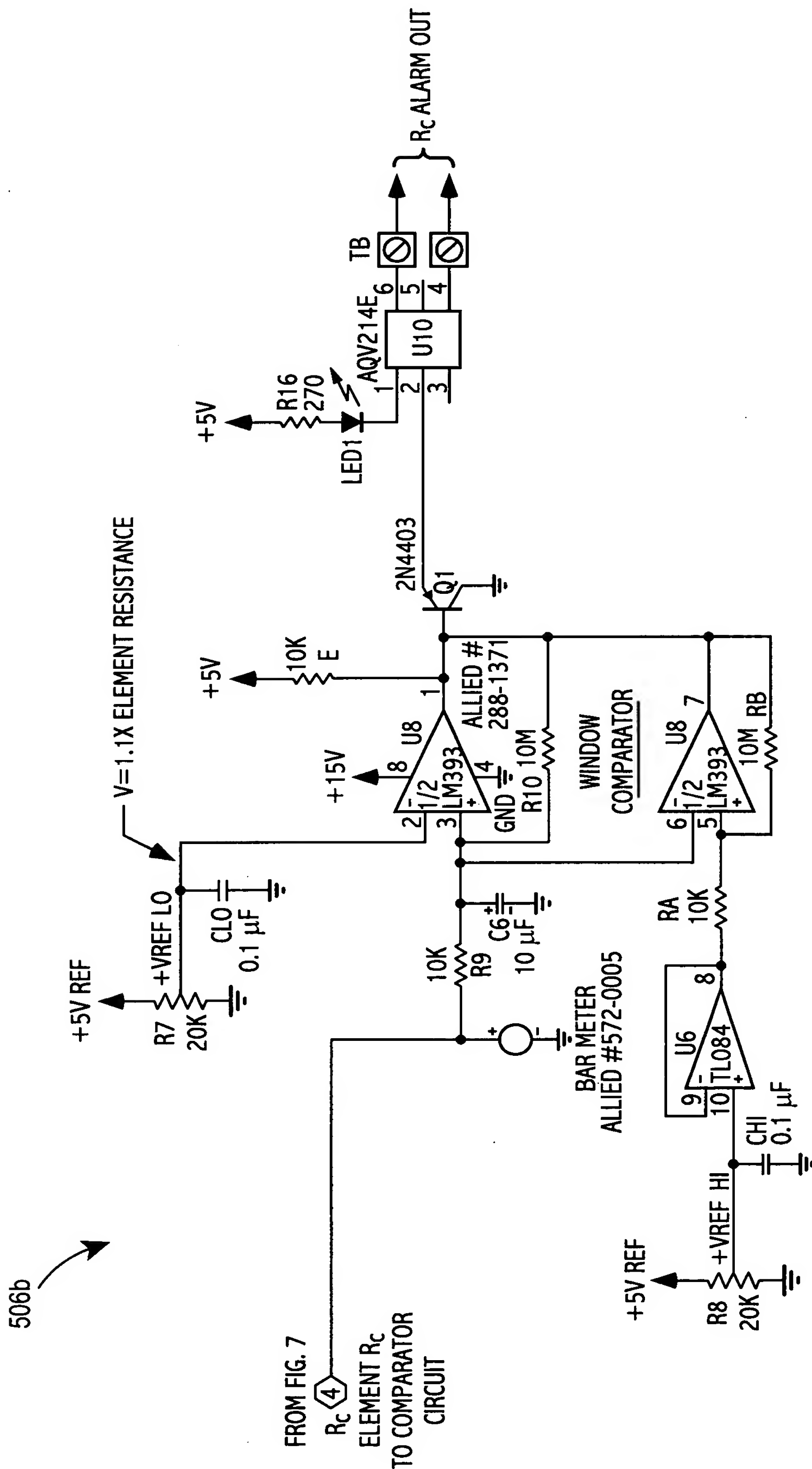
FIG. 6



FIG.7B







**FIG. 8B**

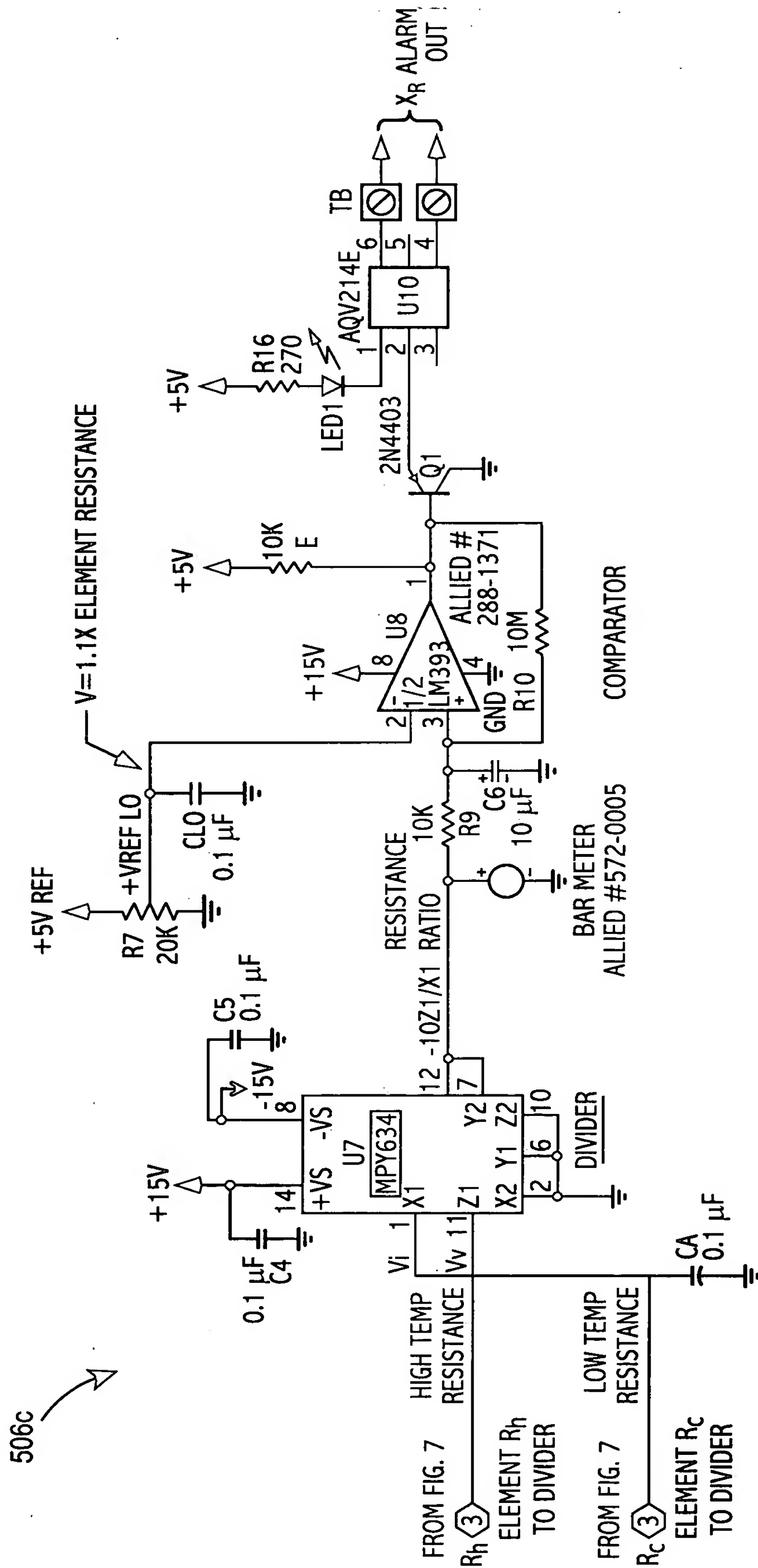


FIG. 8C

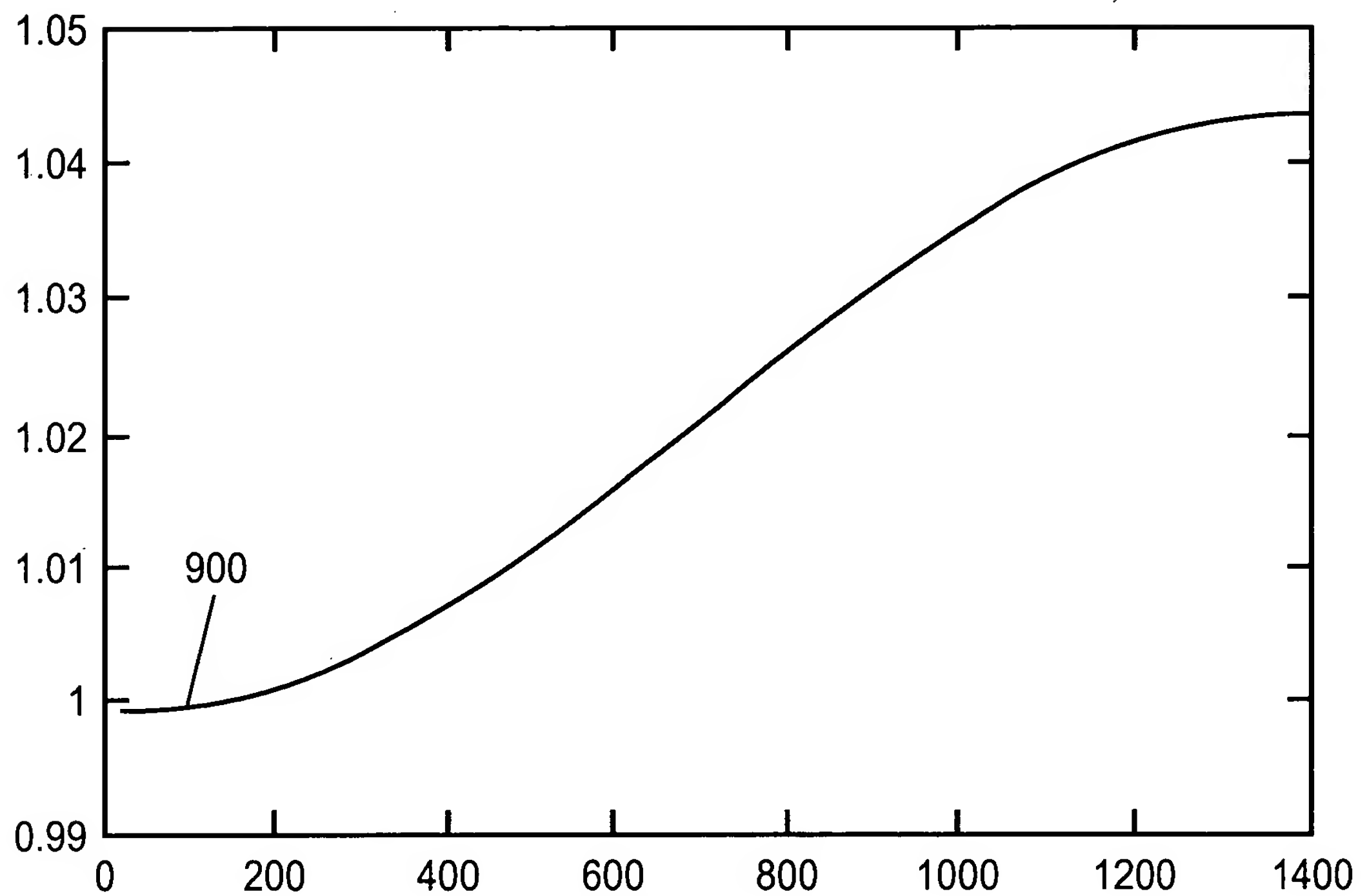


FIG. 9

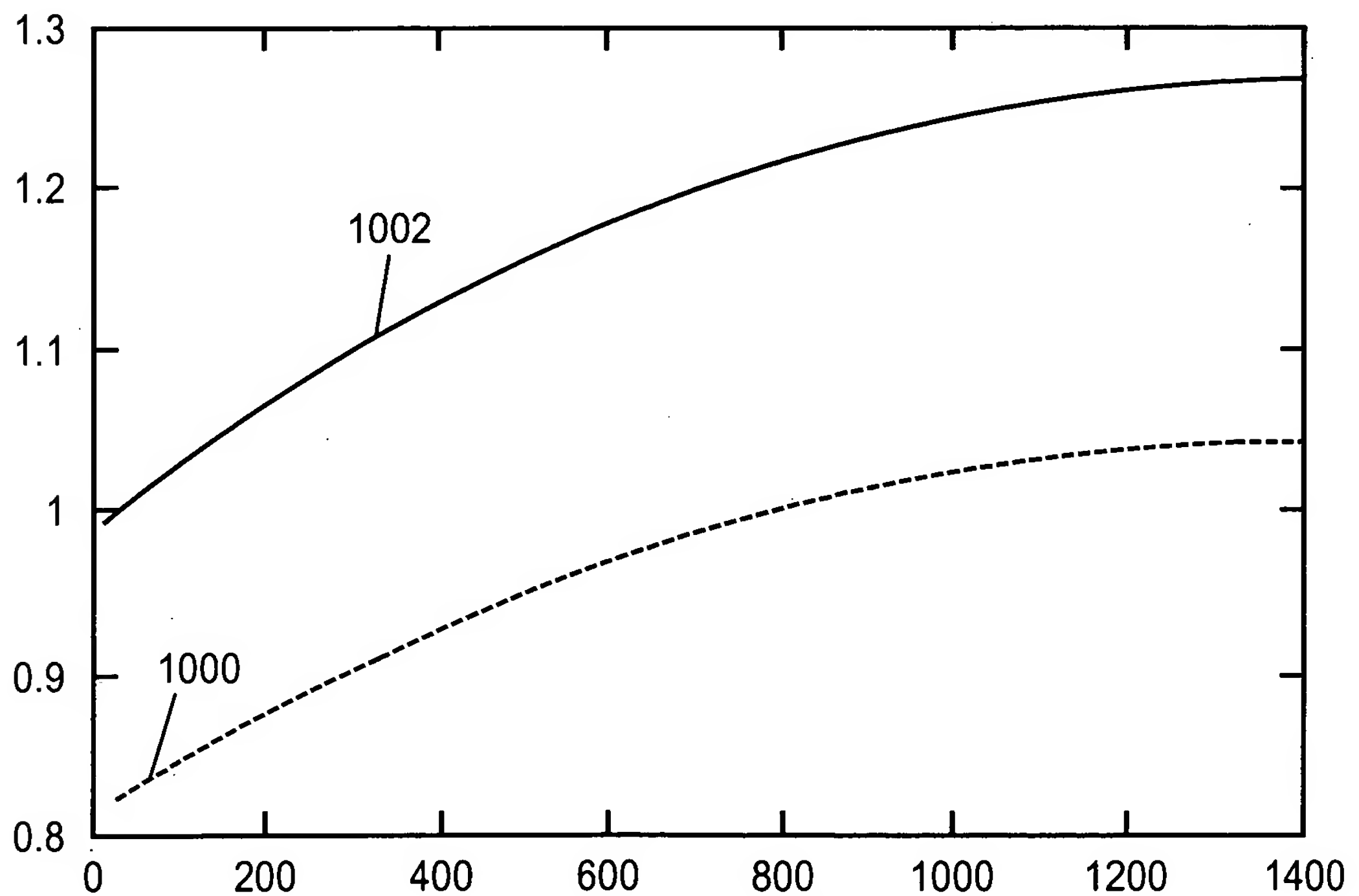


FIG. 10



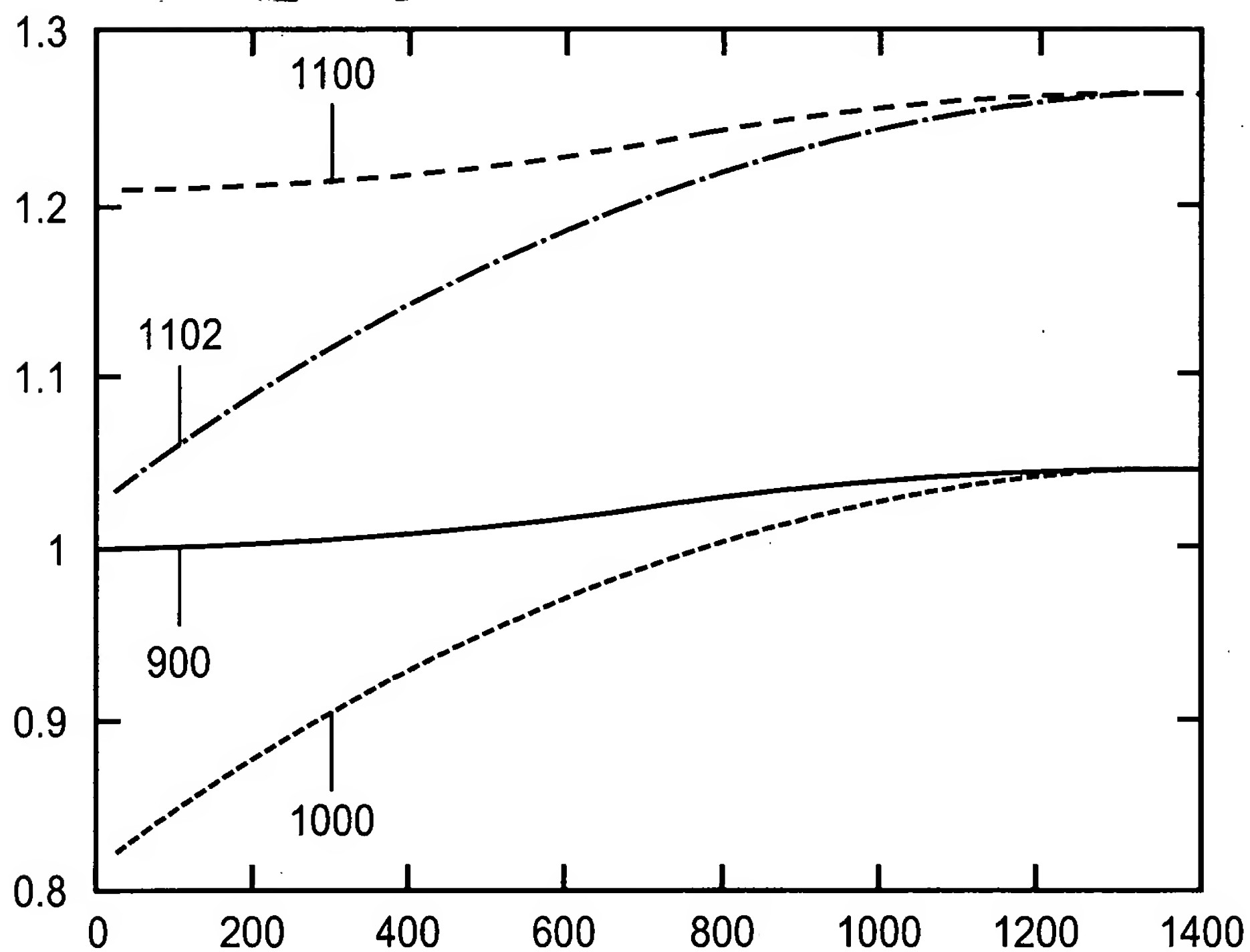


FIG. 11

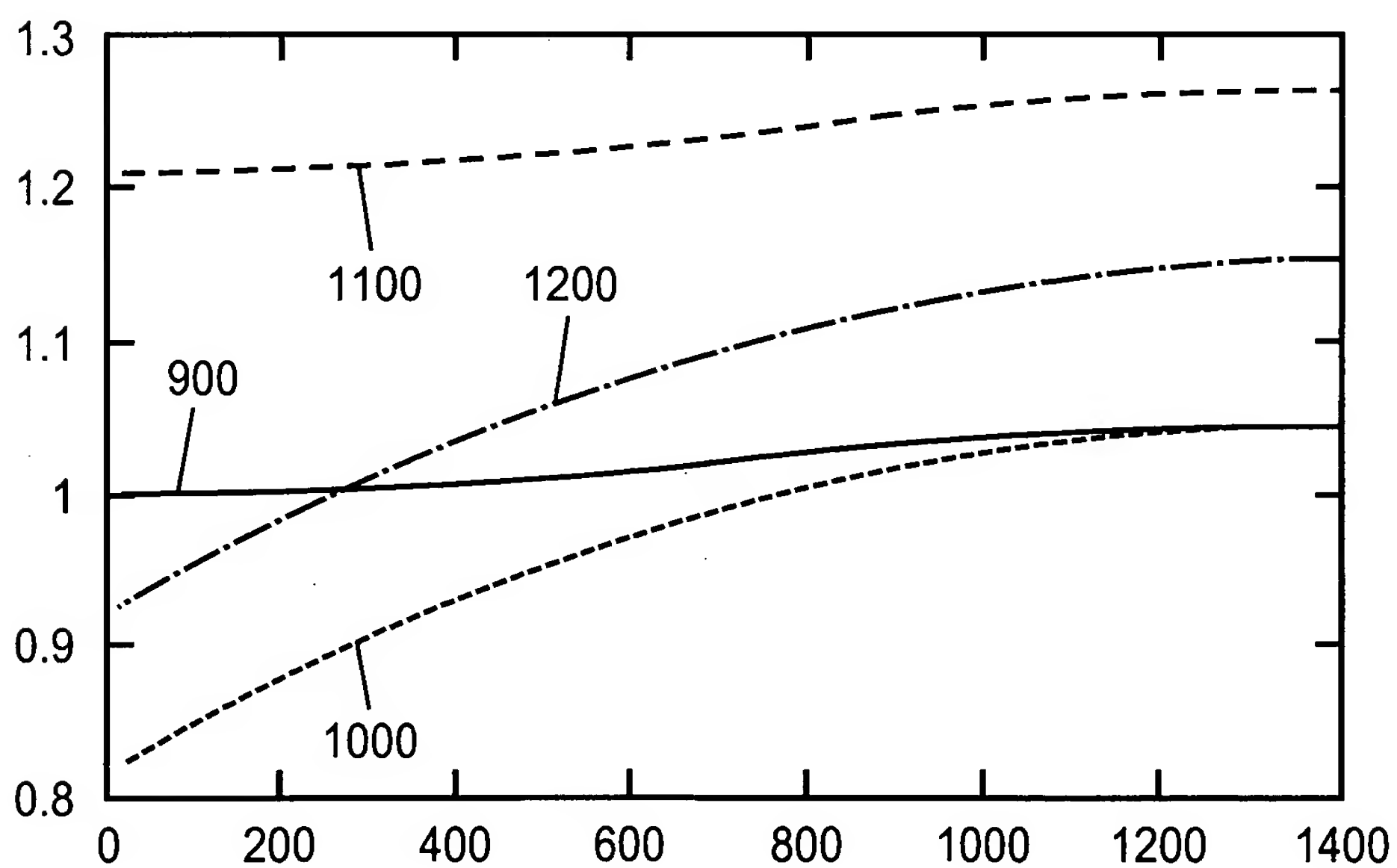


FIG. 12

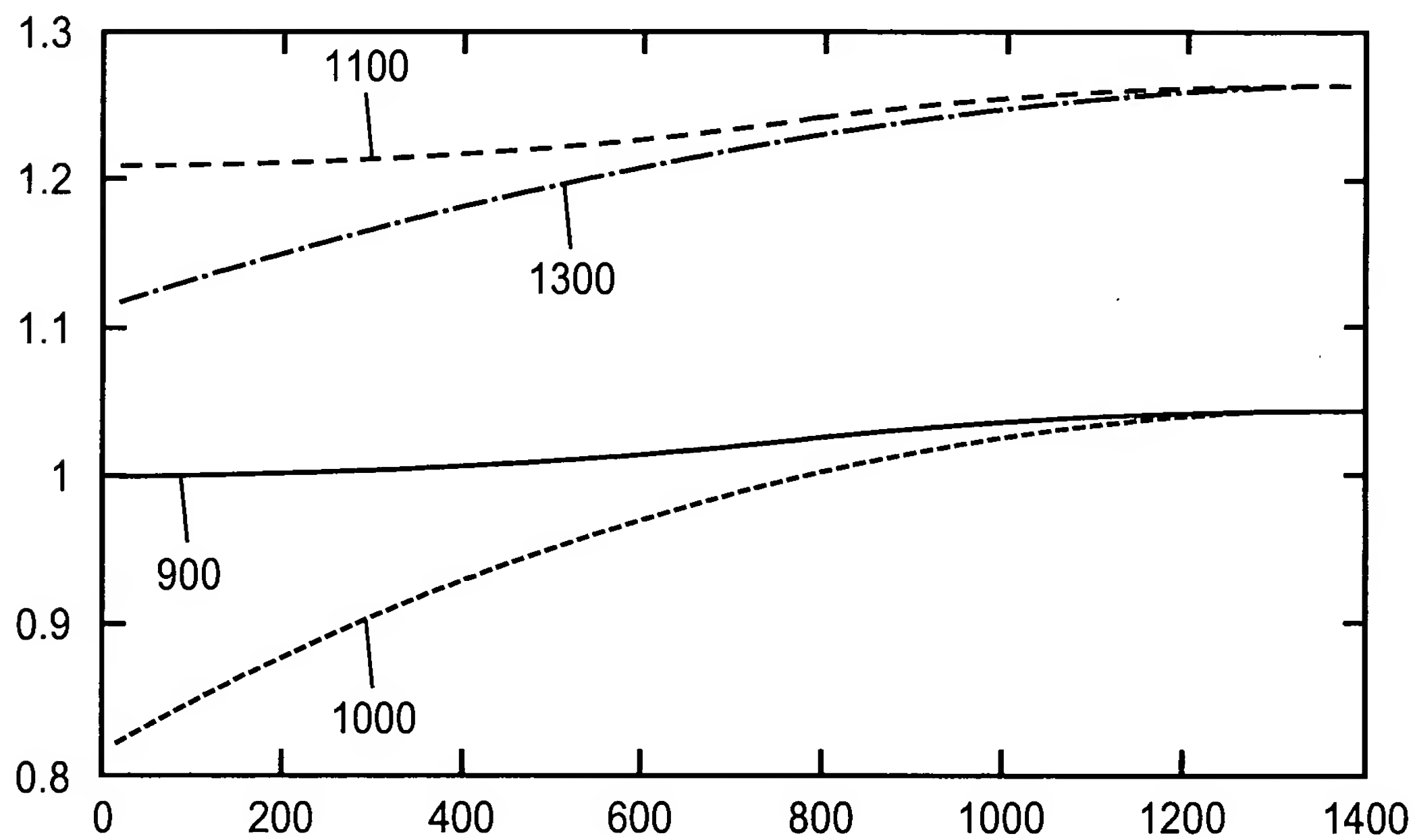


FIG. 13

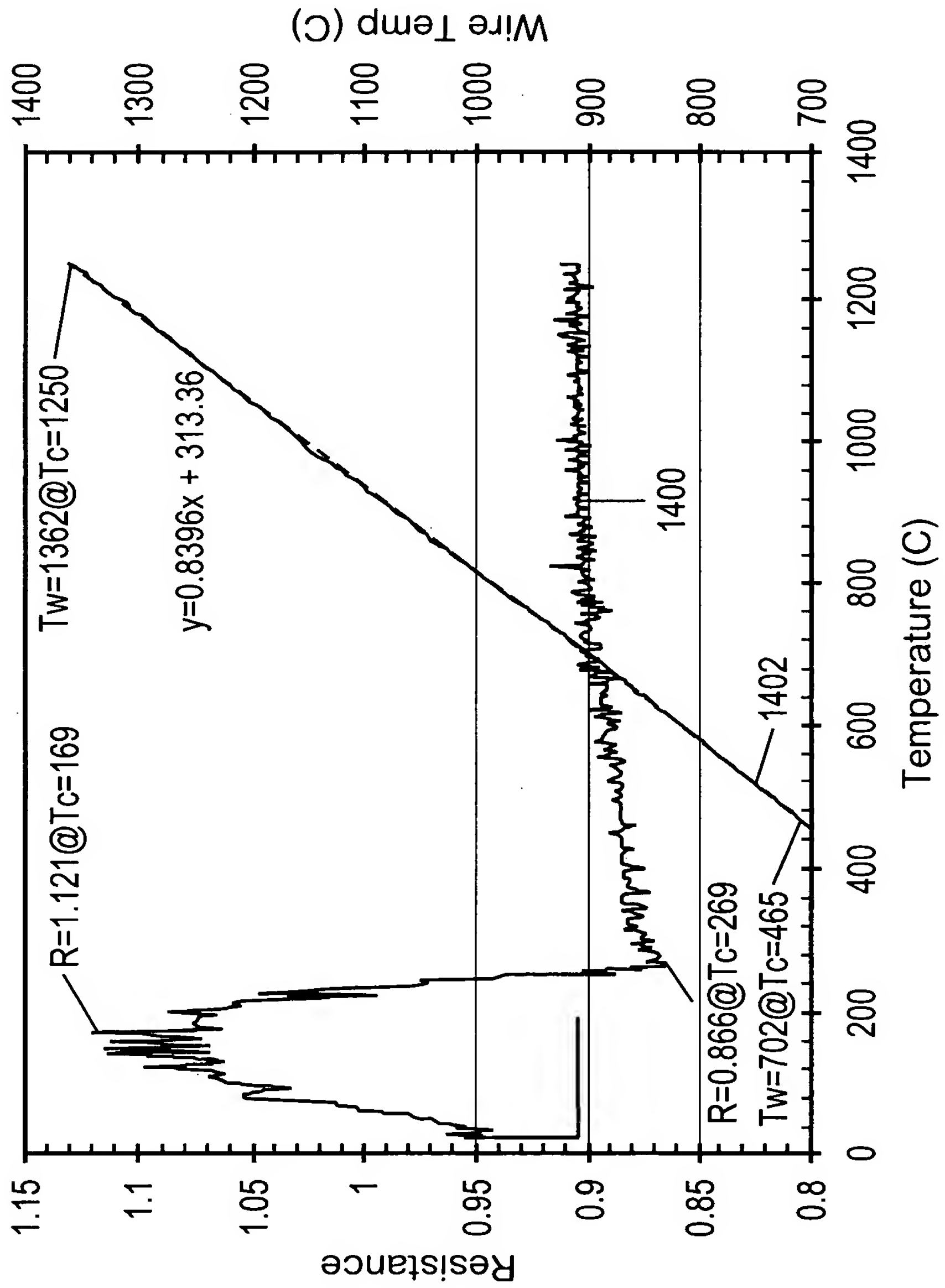


FIG. 14